

Docket No.: 2183-6265US

(A)



peptides:

HR2 region:

peptides:

HR2-1	1126	(GS) ELDSKPELDNYFNH-----TSPOVDLGDISTGINASVNVIOKEID-----RLNEVAKUNNESLIDLOELGKYE	1189
HR2	1145	(GS) DVLGDLDISTGINASVNVIOKEID-----RLNEVAKUNNESLIDLOELGKYE	1189
F1-HR2	1145	DYKDDDDK--GS-DVLGDLDISTGINASVNVIOKEID-----RLNEVAKUNNESLIDLOELGKYE	1189

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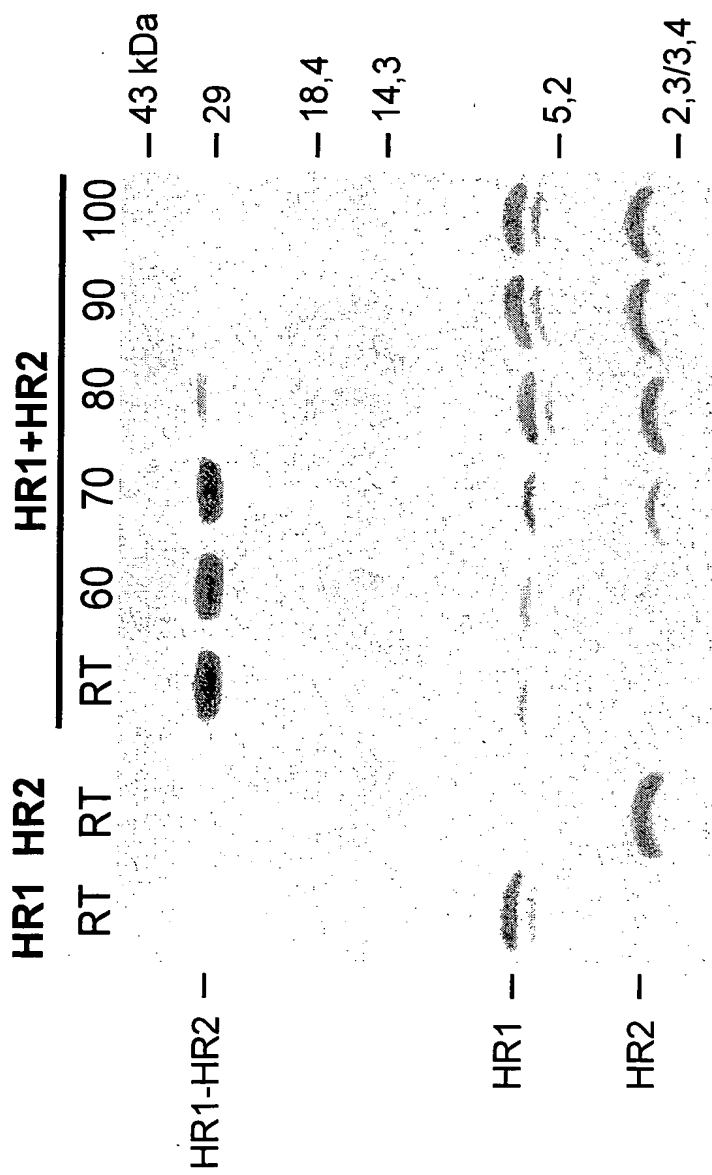
(A)

HR1	HR2	HR1+HR2
RT	RT	RT 100°C
HR1-HR2	—	—
		— 43 kDa
		— 29
		— 18.4
		— 14.3
HR1	—	—
		— 5.2
HR2	—	— 2.3/3.4

(B)

HR1a	HR2	HR1a+HR2
RT	RT	RT 100°C
HR1a-HR2	—	—
		— 43 kDa
		— 29
		— 18.4
		— 14.3
HR1a	—	—
		— 5.2
HR2	—	— 2.3/3.4

Fig.3



TITLE: CORONA-VIRUS-LIKE
PARTICLES COMPRISING
FUNCTIONALLY DELETED GENOMES

Inventor: Rottier et al.
Docket No.: 2183-6265US

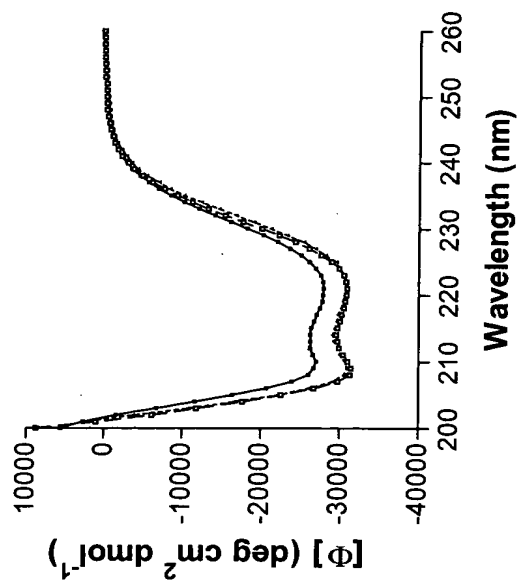


Fig. 4.

TITLE: CORONA-VIRUS-LIKE
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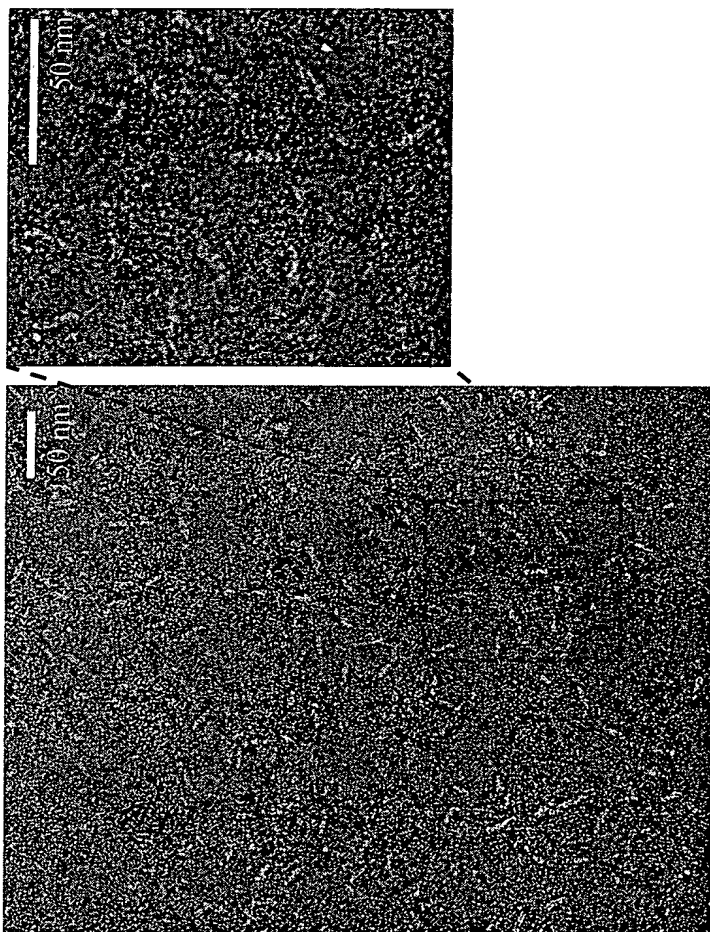


Fig. 5

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Fig.6

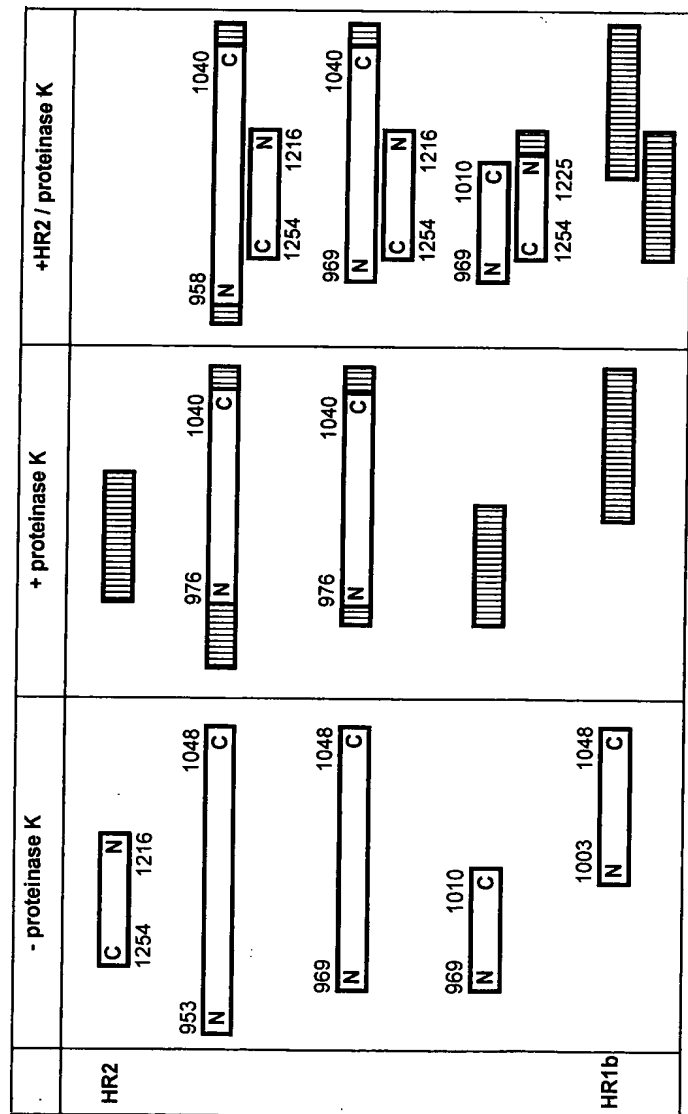
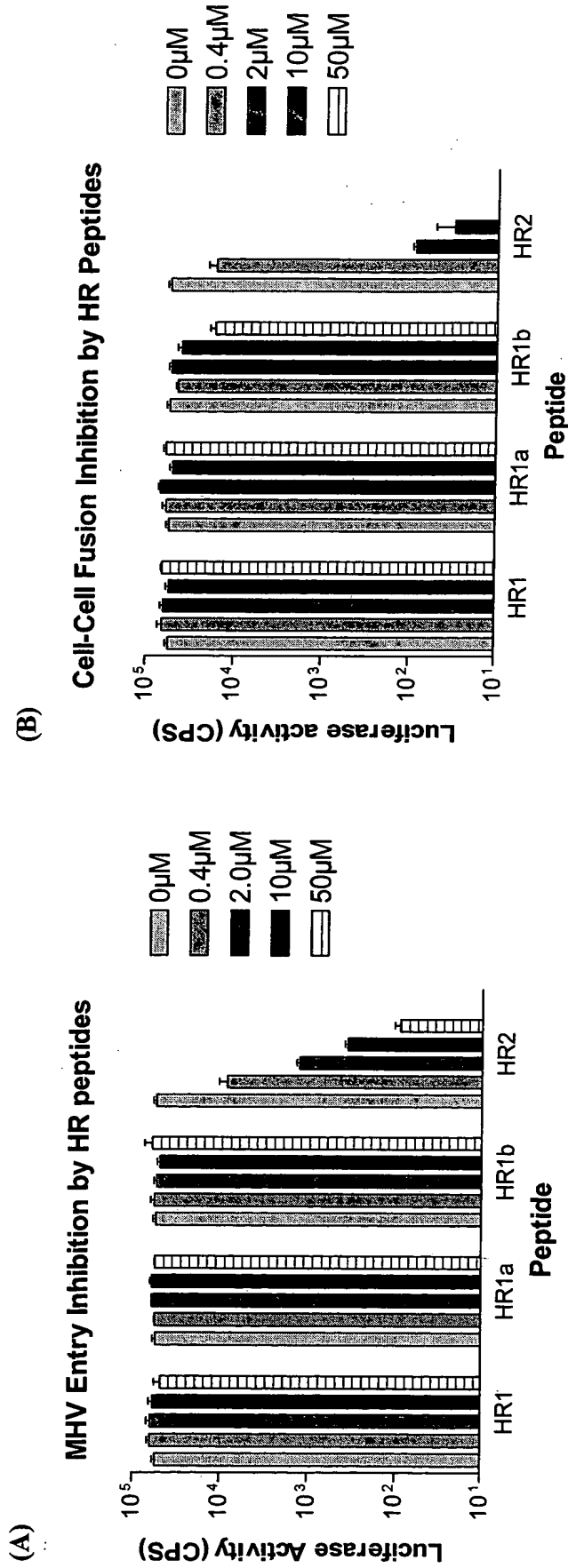


Fig.7

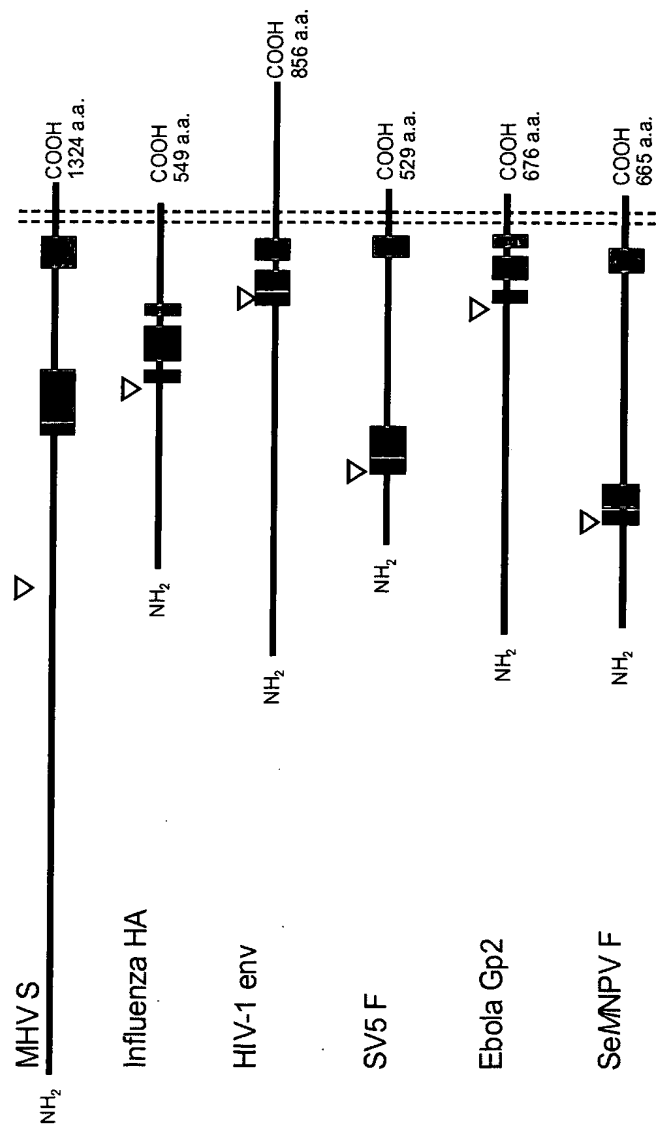


TITLE: CORONA-VIRUS-LIKE
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Fig 8



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Fig.9

>GST-HR1

MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGVDVKLTQSMARIYIADKHNNMLGGCPKERAESMLEGAVLDIRYGVSR IAYSKDFF
TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLVPRG**SQARLN**
VALQTDVLNKNQOILANAFNOAIGNITQAFGVNDATHQTSQGLATVAKALAKVDVNTQGOALSHLTVQLQNNFQAISSISDIYNRLDELSADAQVDRLLIT

>GST-HR2

MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGVDVKLTQSMARIYIADKHNNMLGGCPKERAESMLEGAVLDIRYGVSR IAYSKDFF
TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLVPRG**SEFTL**
FNATYINLTGEIDDLERSEKLNHTTVELAILIDNINNTLVNLEW

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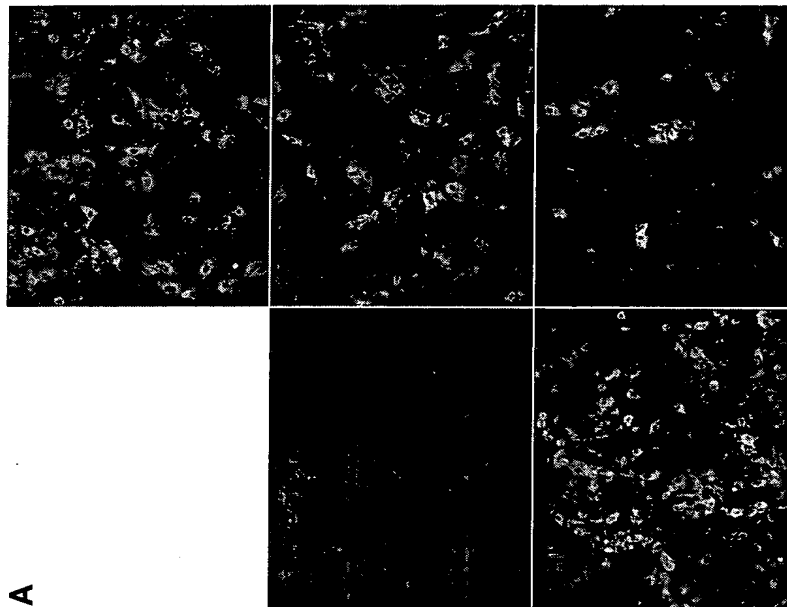
Fig. 10

>SARS nucleotide and deduced protein sequence as derived from the RT-PCR fragment:

```
nt 1 gaaatchcgscttctgctaattcttgctgctactaaaatgtctgagtgtgttcttggacaa .
aa 1 E I X X S A N L A A T K M S E C V L G Q
tcaaaaagagttgacttttgtggaaagggctaccaccttatgtccttcccacaagcagcc
S K R V D F C G K G Y H L M S F P Q A A
ccgcatgggtgttgtcttcctacatgtcacgtatgtgccatcccaggagaggaacttcacc
P H G V V F L H V T Y V P S Q E R N F T
acagcgccagcaatttgtcatgaaggcaaagcatacttccctcgtgaaggtgtttttgtg
T A P A I C H E G K A Y F P R E G V F V
tttaatggcacttcttggttttattacacagaggaacttcttttctccacaaataattact
F N G T S W F I T Q R N F F S P Q I I T
acagacaatacatttgtctcaggaaattgtgatgtcgttattggcatcattaacaacaca
T D N T F V S G N C D V V I G I I N N T
gtttatgatcctctgcaacctgagcttgactcattcaaagaagagctggacaagtacttc
V Y D P L Q P E L D S F K E E L D K Y F
aaaaatcatatcaccagatgttgatcttggcgacatttcaggcattaacgcttctgtc
K N H T S P D V D L G D I S G I N A S V
gtcaacattcaaaaagaaattgaccgcctcaatgaggtcgctaaaaatttaaataatgaatca
V N I Q K E I D R L N E V A K N L N E S
ctcattgaccttcaagaattgggaaaatatgagcaatatatt 582
L I D L Q E L G K Y E Q Y I 194
```

FIG.11

A



B

peptide	amino acid sequence	EC ₅₀ ± SD (μM)
	SCV	MHV
B.1		
SHR2-1	ELIASFEEELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	4314.4
SHR2-2	PREELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	2892.8
SHR2-3	LEIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-4	LEIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-5	TSPPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-6	TSPPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-7	VQLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-8	DISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2-9	ELIASFEEELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	1193.0
SHR2-10	ELIASFEEELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	3444.0
SHR2	ELIASFEEELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	nd
SHR2	DLSLDPEELIATYFPHRTSPVDLGGISGIIINAVNI QKEIDRLAEVAVNARMSI IDQLGKTE	>50
B.2		
SHR1	ATPENGIGIOTGVLTENQCIANGPNAI IQI QESITTTTALGKLGQVNVQQAQNTLVKQ	>50
SHR1a	ENKESITTTTALGKLGQVNVQQAQNTLVKQ	nd
SHR1b	NRQCIANGPNAI IQI QESITTTTALGKLGQVNVQQAQNTLVKQ	>50
SHR1c	NRQCIANGPNAI IQI QESITTTTALGKLGQVNVQQAQNTLVKQ	nd
SHR1c	NRQCIANGPNAI IQI QESITTTTALGKLGQVNVQQAQNTLVKQ	>50

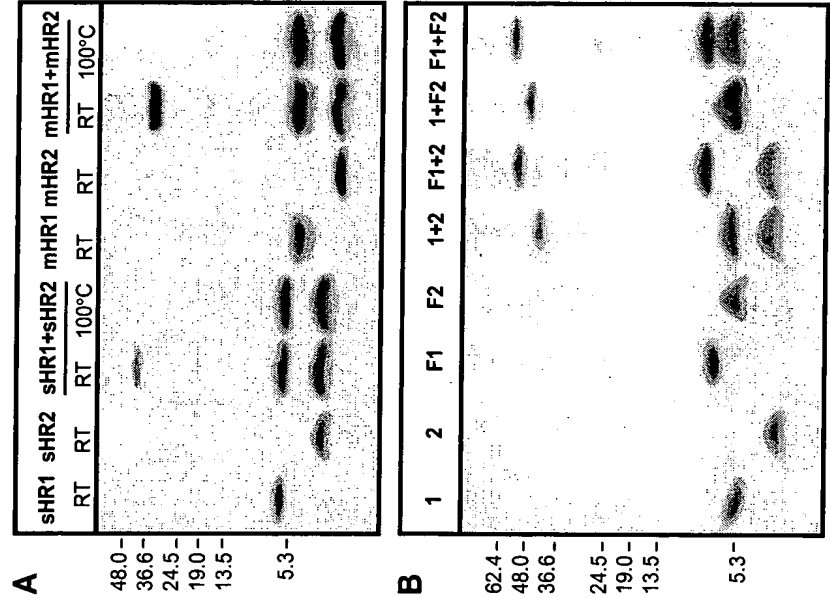


FIG.12

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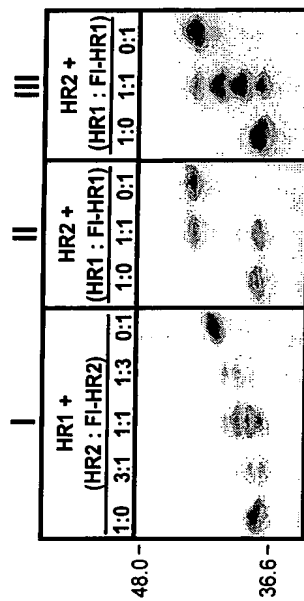


FIG.13

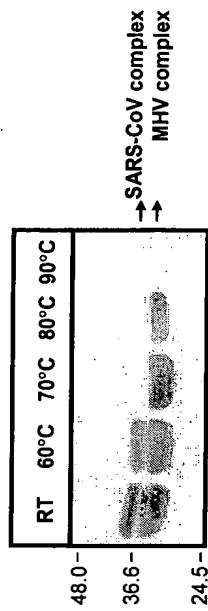


FIG.14

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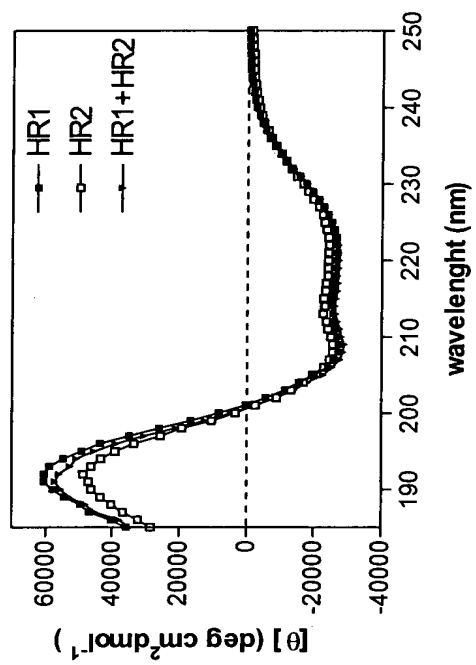


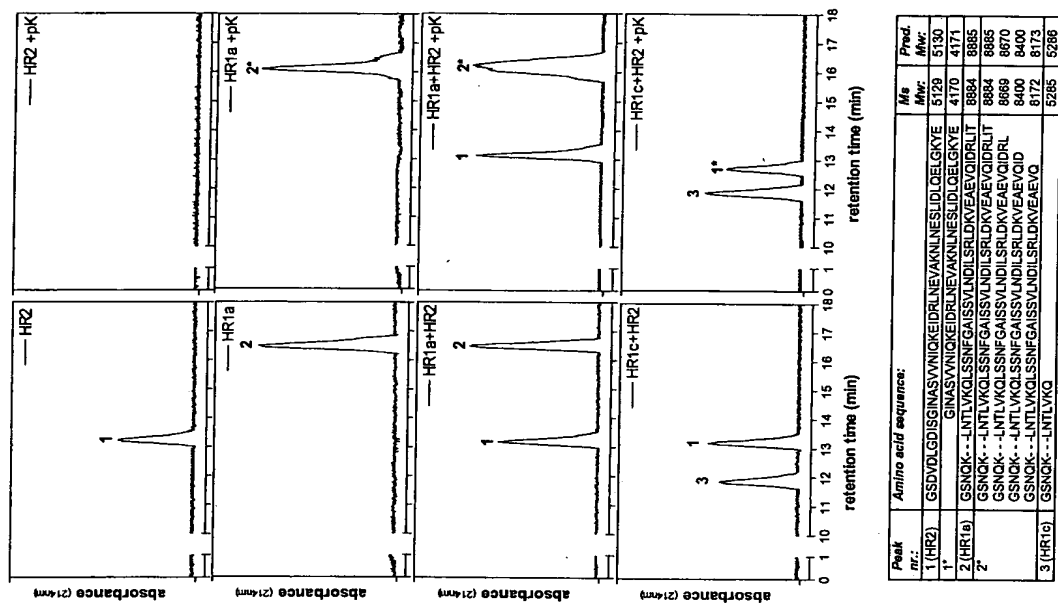
FIG.15

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FIG.16



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FIG.17

